

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101078,927B
Source: IFW16
Date Processed by STIC: 06-22-2005

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IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/078,927B

DATE: 06/22/2005

TIME: 17:07:57

Input Set : A:\SJ-01-0032 Revised 0305.ST25.txt
 Output Set: N:\CRF4\06222005\J078927B.raw

3 <110> APPLICANT: St. Jude Children's Research Hospital
 4 St. Jude Children's Research Hospital
 5 Curran, Thomas
 6 Keshvara, Lakhu
 8 <120> TITLE OF INVENTION: Cyclin Dependent Kinase 5 Phosphorylation of Disabled 1
Protein
 10 <130> FILE REFERENCE: SJ-01-0032
 12 <140> CURRENT APPLICATION NUMBER: 10/078,927B
 13 <141> CURRENT FILING DATE: 2002-02-19
 15 <160> NUMBER OF SEQ ID NOS: 4
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 6
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Mus musculus
 25 <220> FEATURE:
 26 <221> NAME/KEY: DOMAIN
 27 <222> LOCATION: (1)..(6)
 28 <223> OTHER INFORMATION: smallest carboxy terminal Dab1 tryptic fragment containing a
Cdk5
 29 phosphorylation site
 31 <220> FEATURE:
 32 <221> NAME/KEY: SITE
 33 <222> LOCATION: (3)..(3)
 34 <223> OTHER INFORMATION: Serine at residue #3 equates to Serine491 in mouse Dab1
sequence
 35 Cdk5 phosphorylation of Serine requires a Proline (P) in the +1
 36 position and a Lysine (K) in the +3 position
 38 <400> SEQUENCE: 1
 40 Gln Ser Ser Pro Ser Lys
 41 1 5
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 24
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Mus musculus
 50 <220> FEATURE:
 51 <221> NAME/KEY: DOMAIN
 52 <222> LOCATION: (1)..(24)
 53 <223> OTHER INFORMATION: Dab1 tryptic fragment containing a Cdk5 phosphorylation site
 55 <220> FEATURE:
 56 <221> NAME/KEY: SITE
 57 <222> LOCATION: (21)..(21)
 58 <223> OTHER INFORMATION: Serine at Reisdue 21 equates to Serine515 in mouse Dab1
sequence

59 Cdk5 phosphorylation of Serine requires a Proline (P) in the +1
60 position and a Lysine (K) in the +3 position
62 <400> SEQUENCE: 2

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64 Ser Ser Ala Ser His Val Ser Asp Pro Thr Ala Asp Asp Ile Phe Glu
65 1 5 10 15
68 Glu Gly Phe Glu Ser Pro Ser Lys
69 20
72 <210> SEQ ID NO: 3
73 <211> LENGTH: 14
74 <212> TYPE: PRT
75 <213> ORGANISM: Mus musculus
78 <220> FEATURE:
79 <221> NAME/KEY: DOMAIN
80 <222> LOCATION: (1)...(14)
81 <223> OTHER INFORMATION: Dab1 phosphopeptide domain used for antibody production
83 <220> FEATURE:
84 <221> NAME/KEY: MOD_RES
85 <222> LOCATION: (8)...(8)
86 <223> OTHER INFORMATION: PHOSPHORYLATION, equates to Serine491 in mouse Dab1 sequence
87 Cdk5 phosphorylation of Serine requires a Proline (P) in the +1
88 position and a Lysine (K) in the +3 position
90 <400> SEQUENCE: 3
92 Thr Pro Ala Pro Arg Gln Ser Ser Pro Ser Lys Ser Ser Ala
93 1 5 10
96 <210> SEQ ID NO: 4
97 <211> LENGTH: 555
98 <212> TYPE: PRT
99 <213> ORGANISM: Mus musculus
101 <400> SEQUENCE: 4
103 Met Ser Thr Glu Thr Glu Leu Gln Val Ala Val Lys Thr Ser Ala Lys
104 1 5 10 15
107 Lys Asp Ser Arg Lys Lys Gly Gln Asp Arg Ser Glu Ala Thr Leu Ile
108 20 25 30
111 Lys Arg Phe Lys Gly Glu Gly Val Arg Tyr Lys Ala Lys Leu Ile Gly
112 35 40 45
115 Ile Asp Glu Val Ser Ala Ala Arg Gly Asp Lys Leu Cys Gln Asp Ser
116 50 55 60
119 Met Met Lys Leu Lys Gly Val Val Ala Gly Ala Arg Ser Lys Gly Glu
120 65 70 75 80
123 His Lys Gln Lys Ile Phe Leu Thr Ile Ser Phe Gly Gly Ile Lys Ile
124 85 90 95
127 Phe Asp Glu Lys Thr Gly Ala Leu Gln His His His Ala Val His Glu
128 100 105 110
131 Ile Ser Tyr Ile Ala Lys Asp Ile Thr Asp His Arg Ala Phe Gly Tyr
132 115 120 125
135 Val Cys Gly Lys Glu Gly Asn His Arg Phe Val Ala Ile Lys Thr Ala
136 130 135 140
139 Gln Ala Ala Glu Pro Val Ile Leu Asp Leu Arg Asp Leu Phe Gln Leu
140 145 150 155 160
143 Ile Tyr Glu Leu Lys Gln Arg Glu Glu Leu Glu Lys Lys Ala Gln Lys
144 165 170 175
147 Asp Lys Gln Cys Glu Gln Ala Val Tyr Gln Thr Ile Leu Glu Glu Asp

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148	180	185	190	
151	Val Glu Asp Pro Val Tyr Gln Tyr Ile Val Phe Glu Ala Gly His Glu			
152	195	200	205	
155	Pro Ile Arg Asp Pro Glu Thr Glu Glu Asn Ile Tyr Gln Val Pro Thr			
156	210	215	220	
159	Ser Gln Lys Lys Glu Gly Val Tyr Asp Val Pro Lys Ser Gln Pro Val			
160	225	230	235	240
163	Ser Ala Val Thr Gln Leu Glu Leu Phe Gly Asp Met Ser Thr Pro Pro			
164	245	250	255	
167	Asp Ile Thr Ser Pro Pro Thr Pro Ala Thr Pro Gly Asp Ala Phe Leu			
168	260	265	270	
171	Pro Ser Ser Ser Gln Thr Leu Pro Gly Ser Ala Asp Val Phe Gly Ser			
172	275	280	285	
175	Met Ser Phe Gly Thr Ala Ala Val Pro Ser Gly Tyr Val Ala Met Gly			
176	290	295	300	
179	Ala Val Leu Pro Ser Phe Trp Gly Gln Gln Pro Leu Val Gln Gln Gln			
180	305	310	315	320
183	Ile Ala Met Gly Ala Gln Pro Pro Val Ala Gln Val Ile Pro Gly Ala			
184	325	330	335	
187	Gln Pro Ile Ala Trp Gly Gln Pro Gly Leu Phe Pro Ala Thr Gln Gln			
188	340	345	350	
191	Ala Trp Pro Thr Val Ala Gly Gln Phe Pro Pro Ala Ala Phe Met Pro			
192	355	360	365	
195	Thr Gln Thr Val Met Pro Leu Ala Ala Ala Met Phe Gln Gly Pro Leu			
196	370	375	380	
199	Thr Pro Leu Ala Thr Val Pro Gly Thr Asn Asp Ser Ala Arg Ser Ser			
200	385	390	395	400
203	Pro Gln Ser Asp Lys Pro Arg Gln Lys Met Gly Lys Glu Ser Phe Lys			
204	405	410	415	
207	Asp Phe Gln Met Val Gln Pro Pro Pro Val Pro Ser Arg Lys Pro Asp			
208	420	425	430	
211	Gln Pro Ser Leu Thr Cys Thr Ser Glu Ala Phe Ser Ser Tyr Phe Asn			
212	435	440	445	
215	Lys Val Gly Val Ala Gln Asp Thr Asp Asp Cys Asp Asp Phe Asp Ile			
216	450	455	460	
219	Ser Gln Leu Asn Leu Thr Pro Val Thr Ser Thr Thr Pro Ser Thr Asn			
220	465	470	475	480
223	Ser Pro Pro Thr Pro Ala Pro Arg Gln Ser Ser Pro Ser Lys Ser Ser			
224	485	490	495	
227	Ala Ser His Val Ser Asp Pro Thr Ala Asp Asp Ile Phe Glu Glu Gly			
228	500	505	510	
231	Phe Glu Ser Pro Ser Lys Ser Glu Glu Gln Glu Ala Pro Asp Gly Ser			
232	515	520	525	
235	Gln Ala Ser Ser Thr Ser Asp Pro Phe Gly Glu Pro Ser Gly Glu Pro			
236	530	535	540	
239	Ser Gly Asp Asn Ile Ser Pro Gln Asp Gly Ser			
240	545	550	555	

VERIFICATION SUMMARY

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